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DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW
1ST REVIEW-DATE: 3-11-96
AUTHORITY: ☐AOC ☐ADC ☐ADD
NAME: [signature]
2ND REVIEW-DATE: 3-20-96
AUTHORITY: ADD
NAME: [signature]
DETERMINATION (CIRCLE NUMBER(S))
1. CLASSIFICATION RETAINED
2. CLASSIFICATION CHANGED TO:
3. CONTAINS NO DOE CLASSIFIED INFO
4. COORDINATE WITH:
5. CLASSIFICATION CANCELLED
6. CLASSIFIED INFO BRACKETED
7. OTHER (SPECIFY):

H-04-019 41-11 Capt. [illegible]

3 August 1945

UNCLASSIFIED

[redacted] (S)

TO: J. R. Zacharias [redacted]

FROM: L. Fussell, Jr. [redacted]

8/4 PRR

SUBJECT: Informers and Test results

[redacted]

UNIQUE DOCUMENT # SAB200086650000

An informal meeting was held on 3 August, attended by E. W. Titterton and W. Higinbotham (G-4), Capt. Staley and Ens. Judd (O-3), K. Greisen (X-7), J. E. Thomas, D. F. Hornig, B. T. Wright, N. H. Godbold and myself (X-5), and J. R. Zacharias. The meeting discussed the methods of informing now in use, as well as those which have been proposed from time to time. It is felt that a careful study must be made to determine how we can get the greatest quantity of useful information from each test, consistent with simplicity and reliability of the informing equipment. The equipment must in any event distinguish between failures of the informer and actual failures of the equipment under test.

The information obtained by O-3 narrow band informers at present includes:

1. Time of operation of clocks.
2. Time of operation of barometric switches.
3. Operation of A-units.
4. Operation of A-relay.
5. Time arming signal is sent to X-unit.
6. Operation of X-unit arming switch.
7. Time firing signal is sent to X-unit.
8. Operation of X-unit firing switch.
9. Operation of two Wright/Blake switches.
10. Time of hitting ground.

FINAL DETERMINATION UNCLASSIFIED [redacted] 1981

In addition to these jobs O-3 has obtained information during special drops concerning vibration of dummy equipment and of pressure build-up within the sealed gadget. Additional information now obtained during the standard drop is a check on the operation of a Wright/Blake switch, as indicated by smoke puffs.

Further information, not now obtained, was felt highly desirable, and includes in varying degrees of desirability:

A. Do all four X-unit quadrants fire?
   a) Yes - No
   b) Yes - No within given time internal.
   c) Time spread first to last - normally too small to measure.

B. [redacted]

OOE b(3)

C. Vibration during drop using actual equipment instead of mock-ups.

D. Operation of impact fuses (?)

UNCLASSIFIED

[redacted]

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Classification changed to: [illegible] TSM FSS to 9/13/95 ADC/ADD
1st reviewer signature/title/org./date/authority
N/A ADD
2nd reviewer signature/title/org./date/authority

RESTRICTED DATA
This document contains restricted data as defined in the Atomic Energy Act of 1954. Unauthorized disclosure subject to Administrative and Criminal Sanctions.

05SA20B000260

[redacted]

To: J. R. Zacharias

8/3/45

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It is felt that a section should be established for the purpose of handling test information. This section would provide and operate the informer equipment, and would analyze and report the test results.

This represents a departure from the current system in which each group is responsible for its own results unless it can persuade another group to do the job. Group O-3, being the first in the field, has carried the ball admirably for a number of other groups, but has not been given the overall responsibility for the obtaining of test information. The work has been well done, but on an informal and insufficiently considered basis. It is quite possible for example that the information now obtained by O-3 for the operation of its own equipment could be curtailed somewhat to allow added information on equipment not yet proven.

It is expected that this scheme will meet both support and opposition, and in both cases should be taken up with you.

L. Fussell, Jr.

LF/vt

cc:	Zacharias	Hornig
	Kistiakowsky	Godbold
	Bacher	Wright
	Oppenheimer	Blake
	Brode	Thomas
	Staley	Fowler
	Judd	Larkin
	Greisen	Bradbury
	Higinbotham	Lofgren
	Titterton	Fussell

[redacted]

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[redacted]